Contents Volume 71 (1992)

Vol. 71, Nos. (1+2) (July 3, 1992)

Water/acetone permeability of porous hollow-fiber membrane containing diethylamino groups on the grafted polymer branches
S. Tsuneda, K. Saito, S. Furusaki (Tokyo, Japan), T. Sugo and I. Ishigaki (Gunma, Japan) 1

Permeation of oxygen, argon and nitrogen through polymer membranes
K. Haraya and S.-T. Hwang (Cincinnati, OH, USA) 13

Hydrodynamic aspects of crossflow microfiltration. Analysis of particle deposition at the membrane surface
P. Schmitz, D. Houi and B. Wandelt (Toulouse, France) 29

Transport of metals through gelled supported liquid membranes containing carrier
L. Bromberg, G. Levin and O. Kedem (Rehovot, Israel) 41

An analytical solution of the steady state convective-diffusion equation with space dependent diffusion coefficient
M.T. de Vilhena (Porto Alegre, Brazil) 51

Permporometry. The determination of the size distribution of active pores in UF membranes
F.P. Cuperus, D. Bargeman and C.A. Smolders (Enschede, Netherlands) 57

Methanol and water uptake, densities, equivalental volumes and thicknesses of several uni- and divalent ionic perfluorosulphate exchange membranes (Nafion-117) and their methanol-water fractionation behaviour at 298 K
D. Nandan, H. Mohan and R.M. Iyer (Bombay, India) 69

Influence of quench medium on the structures and gas permeation properties of polysulfone membranes made by wet and dry/wet phase inversion
I. Pinnau and W.J. Koros (Austin, TX, USA) 81

Structure and gas permeability of silylated polyphenylene oxide
A. Assogna (Roma, Italy), G. Perego, A. Roggero (San Donato Mil., Italy), R. Sisto and C. Valentini (Roma, Italy) 97

Ion transfer across electrodialysis membranes in the overlimiting current range: stationary voltage current characteristics and current noise power spectra under different conditions of free convection
F. Maletzki, H.-W. Rösler and E. Staude (Essen, Germany) 105

Permeation and plasticization behavior of glassy polymers: a WAXD interpretation
A.Y. Houde, S.S. Kulkarni and M.G. Kulkarni (Pune, India) 117

Charge-mosaic membrane from gamma-irradiated poly(styrene-butadiene-4-vinylpyridine) triblock copolymer. II. Preliminary dialysis test
L. Liang and S. Ying (Shanghai, China) 129

Aqueous-organic membrane bioreactors. Part I. A guide to membrane selection
A.M. Vaidya, G. Bell and P.J. Halling (Glasgow, Scotland) 139

Solvent transport across cation-exchange membranes under a temperature difference and under an osmotic pressure difference
M. Tasaka, T. Hirai, R. Kiyono and Y. Aki (Nagano, Japan) 151

Short Communications

Effect of crosslinking agent on the release of an aqueous marker from liposomes sequestered in collagen and chitosan gels
K. Panduranga Rao and S. Alamelu (Madras, India) 161

Relation between gas permselectivity and permeability in a bilayer composite membrane
A.J. Ashworth (Bath, Great Britain) 169

Book Review 175
Meeting Announcements 176
Meetings Calendar 178

Vol. 71, No. 3 (July 24, 1992)

Transport competition between proton and cupric ion through a cation-exchange membrane. I. Equilibrium properties of the system: Membrane-$CuSO_4 + H_2SO_4$ solution
M. Siali and C. Gavach (Montpellier, France) 181

Membrane potential of separation membranes as affected by ion adsorption
R. Takagi (Nishinomiya, Japan) and M. Nakagaki (Tokyo, Japan) 189

Preliminary investigation of thin film composite reverse osmosis membranes developed from SAN as support membranes
N.V. Desai, R. Rangarajan, A.V. Rao (Bhavnagar, India), D.K. Garg, B.V. Ankleshwaria and M.H. Mehta (Vadodara, India) 201

Prediction of pervaporation separation characteristics for the methanol-pentane-nylon-6-poly(acrylic acid) blended membrane system
R.Y.M. Huang and J.-W. Rhim (Waterloo, Ont., Canada) 211

Characterization of microfiltration membranes by image analysis of electron micrographs. Part I. Method development
L. Zeman and L. Denault (Bedford, MA, USA) 221

Characterization of microfiltration membranes by image analysis of electron micrographs. Part II. Functional and morphological parameters
L. Zeman (Bedford, MA, USA) 233

Transport studies with porous alumina membranes
S.K. Dalvie and R.E. Baltus (Potsdam, NY, USA) 247

A kinetic model for ion transport across skin
J.C. Keister (Crowley, TX, USA) and G.B. Kasting (Cincinnati, OH, USA) 257

Meeting Announcements 273
Meetings Calendar 275
Author Index Volume 71 (1992) 277